Whereas, I Simeon Thompson boat merchant of Red Cross whast Upper Thumes theet London Bridge have for many years observed that much unnecessary labor and unavoidable inoccuracy exist in the acc stomed mode of measuring coals grain seeds and all other dry measurable commodities inamuch in the wight or quantity is lifted three times 1th By the shood or other Utimal from the ground or floor into the measure into the neasure into the rack or other Receiver to you and carrying the sack or other receiver to the place in which it is to be deposited. By the 200 and 3rd operations in this general mode of measuring dry goods it is obvious to every person that it is almost impossible to avoid spilling which deject is a conviderable draw buck on every purchase of these commodities but more praticularly in that of the Urticle of boats I have therefore bein induced to invent and construct a measure which not only occurs to the prochase of every dry masacable commodity this equitable quantity intended him by law but also vaves to the weller so considerable a portion of labor us to fully compensate him for every gain which he derived from the effects in the common mode of measuring These advantages are obtained by the Tachymetrical measures which I have invented the originality of this invention consists in the measure revolving from two cales by which it emphis itself or by the opening and p shutting of the bottom through which it discharges its contents or in whatever manner those effects are produced on the principles I have laid down. The Tachymetrical measure may be made in any of the following modes 1 to ay attaching two pivote or axles as represented in fig 1 on the order circumfrance of the measure observing that they be stationed at two thirds of the depth of the measure from the bottom and directly in a right line across the diameter to preserve an equilibrium when the measure is filled The measure must be suspended from these proofs or sales a. a. writing in the couplings bushes or socked & b. t. which are fixed in the frame e at d is an eye is which is fixed a rope or chain which him the measure and discharges its contents into the desired Receiver or Jack Fig. 2 is a speasure which has a l moveable bottom freed on the iron frame a moving by the acte f. in the couplings is a coming up against the edge of the sim of the incourse h. on the frame is is the iron hork is to which is attached the chain j by which the bottom of the measure is kept shut and when no effort is made to keep the measure shut I recessarily discharges the contrals into any required Receiver or Jack Jeff 3 is a meaning which empties itself by the moving of the stiding bottom to through the paine to into the hopper in and through it into the desired Receives or Jack I have how explained three particular p modes of making the Sachymetrical measures as I am persuaded they will be found to to the most efficacious and convenient ways of obtaining their advantages nevertheless my paint in bace every mode in which those advantages can be obtained that possess or puncipate in any of the principles peculiar to the Jackymetrical measures altho wood with the usual bracings of iron will unswerping well for making the Tachymetrical measure of yet their being made votely of iron will be found to be such more advantageous especially by these persons who may require from 100 to 150 discharges of a meanine in an hour the fragile properties of wood are not permanently adequate to this severe scertion which is easily accomplished when the measures are made of iron The Tachymchical measures may be worked by hand with the simple assistance of a chuin or a rope to hum over the measure applicable to fig I and to open and what the bottom as in fig 2 and to remove the slider as in fig 3 or be facilitated qually by various mechanical applications I have at the Red brow what three of the Sacheprehical Bushel measures worked by machining the Fraisings of which with an explunation of them I have here given two men are able by these measures to measure ( the meter only working the machinery full 130 Chaldron of Couls in R hours and that with more ever to themselves than if they measured one disth of the quantity in the common mode of measuring The Jachymchical measure described by To 2 is the one I have most in use and I think it upon the whole by far the best mode of procuring the benefits derived from the use of the Tachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Tachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Tachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure a description of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure and the working three of the second of the machinery at the Red Cress What London Bridge used for working three of the Jachymetrical measure and the working three of the second of of the even wheels B. B. B. C of about twenty eight enches dearneter with a grove on the edges of wheels about one inch deep and one and a quarter wide for chains to pass in three of the whiels B. B. B. are fixed in the shall with iron key commediately ever the centre of the Burhels. D.D.D. which are serewed down to a wood viage upon which the coals are moved from the shaft A is suspended by four pour of couplines E. E. E. E. sucked to the trainings of shaft and belief up to a wood faming The iron Chains F. F. pajs over the wheele B. B. B. and by means of three weight on of which is shown in fig. 4 they operate us a Counterpoise not only to the weight of the bottoms of the bushels but to the weight of the coals also when the bushels are filled. The whiel C has a rope & which pieres over it the pulling of one and of the rope turns the shaft A. A. und lets out the coals through the bottoms of the brokels D. D. D. into the Hoppers H. H. H. and from thence into the Regences or Jacks. By the other and of the rope the meter checks the rapidity of the shutting of the Bushels which is occasioned by the influence of the weights I. I. Fig 5 is a soraw ketch apparatus which lengthers and shortens the distance from the centre of the wheel C to the place in which the kitch apparatus is fixed which accommodates any expansion or contraction to which the rope is subject and holds up the coals in the Bushels till they are ready to be discharged In the front of the platform into which the sime of Buchelo D. D. D. are placed is stationed a precion roller as represented in fig 6 close to the sim of each Buchel to let the Chains F. F. F. pass over and when the Euchelo open to allow the Chains to go down in an acute angle without rubbing against the rim of the bushels. Immediately over the friction rollers are placed three iron sockets or purnels J. J. J. with aperhases a little largers than the weeth of the links of chains to prount any extrusions could from falling in upon the friction Rollers to impede their operation. By fig 7 is represented a cast iron guard going completely round the rion of the bushed and farming a corresponding lingle with the upper side of the interior of the suchel by which all extraneous loads are prevented from hanging over the excel of the bushed this being the base of the cone from which it is to extend to a height of 7 inches over Two 7 is represented a suspended gauge Is which hange from a Chain M directly over the centre of each Bushel at the height of of inches from the top of the Bushel whenever the meter oses that the couls truch the gauges he then instantly lets go the rope it and by this means he becomes effectually the unconholled Guardian of way purchaser as the meter is by the Jachymetrical measures the bono fide measures he being not subject in any degree to those who may fill the measures for without his present exception the ceals can never pass thro'or leave the Bushels By the machinery here described any number of measures may be worked by the power of one man. Il Boy of ten years old may work the three Jachymsters Bushelo which I have in use in measuring of my Coals at the rate of Twelve Chaldron per hour. Fig 8 is a representation of the swivel source books attached to the which chains I' F. F. by the introduction of these there is precured an accurate adjustment in the length of the Chains by their subdividing in a very correct manner the length of a link of the finest chain Fig I N.N.N. is a hellow cone which forms a space that allows the radius and the defith of the measure from its axis taken together to revolve and empty its contents into the Receiver by this means all extra neous coals . Il down the cone upon the base from which they are measured without which hollow come the measure would be closed and its operation provided Fig 10.00, is a shaft on we h may be factured one or more bushels revolving in the Cones represented as in Fed. 9 and 10. The shaft working in the Couplings P. P. moved by the wheel a lever Q.